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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,892	11/05/2001	Bradley W. Plattner	GRD0128.US	3059

7590

11/14/2003

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EXAMINER

LE, THANH TAM T

ART UNIT PAPER NUMBER

2839

DATE MAILED: 11/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/010,892

Applicant(s)

PLATTNER ET AL.

Examiner

Thanh-Tam T. Le

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 June 2003.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7, 9-14, 16 and 17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 9-14, 16 and 17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 24 June 2003 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- ☐ Interview Summary (PTO-413) Paper No(s). _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Drawings

1. The proposed drawings filed 6/24/03 have been approved.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Douty et al. (4,367,005) in view of Bandyopadhyay (5,203,397).

Regarding claim 1, Douty et al., figures 1 and 3, disclose a strain relief cover which read on an electrical connector for coupling a plurality of electrical conductors which enclosed in a sleeve, comprising:

- a plurality of electrical conductors (46);
- a sleeve (12, a sheath for a cable) carries the plurality of electrical conductors (column 1, lines 31-33); and
- a connector (10 and 14, 16, a connector and a cover members, respectively) comprises a housing which including a first end has an opening (O, attachment) with an inner surface (X, attachment) to accommodate the sleeve and the plurality of electrical conductors. The inner surface having a plurality of pointed projections (24, a plurality of teeth), each of the pointed projections

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having a ramped side (A, attachment), which is extending farther from the inner surface in a direction away from the opening (the Examiner notes that the direction away from the opening means the ramped side is parallel to the opening direction, because it's not face to the opening). The point projections including two adjacent sides (B, attachment) being adjacent to the ramped side that extending from the inner surface (the Examiner notes that the inner surface is the upper face of the cover (16)) meeting to form a chisel point (Y, attachment) oriented substantially parallel with a direction in which the electrical conductors are oriented within the connector.

Douty et al. disclose the instant claimed invention as described above except for a fiberglass sleeve.

Bandyopadhyay discloses a die-casing assembly having a plurality of conductors (10) is surrounded by a fiberglass sleeve (20, column 5, lines 3-5). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Douty et al.'s cable with the fiberglass sleeve as taught by Bandyopadhyay, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Regarding claim 2, Douty et al., figure 3, disclose at least one electrical terminal (42) being constrained within the housing and electrically connected to at least one of the plurality of electrical conductors.

Regarding claims 3, Douty et al., figure 1, disclose each of the adjacent sides of the pointed projections forms an obtuse angle with the inner surface.

Regarding claim 4, Douty et al., figure 1, disclose each of the pointed projections having a front side (C, attachment) which opposing with the ramped side and adjacent to two adjacent sides. The front side/other side being generally perpendicular to the inner surface (this front side compares to the inner surface which is the upper surface of the cover 16).

Regarding claims 5 and 6, Douty et al., figure 1, disclose the plurality of pointed projections are formed a plurality of rows on the inner surface.

Regarding claim 7, Douty et al., figure 2, disclose the housing includes at least two housing portions (14, 16). Each of the housing portions configured to connect with at least one other of the housing portions.

4. Claims 9-14 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Douty et al. and Bandyopadhyay as applied to claim 1 above, and further in view of Wing et al. (3,156,514).

Douty et al. disclose the instant claimed invention as described in claim 1 above except for a pyramid-shaped point.

Wing et al., figure 7, disclose a connector has face (45) with a pyramidal protrusion (46) that read on the two adjacent sides form a pyramid-shaped point for biting into the cable. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Douty et al.'s pointed projections to have the

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pyramidal protrusion as taught by Wing et al., in order to easily bite and securely clasp to the cable.

Regarding claim 10, the rejection is the same as claim 3 above.

Regarding claim 11, the rejection is the same as claim 4 above.

Regarding claims 12 and 13, the rejection is the same as claims 5 and 6 above.

Regarding claim 14, the rejection is the same as claim 7 above.

Regarding claims 16 and 17, a method of forming an electrical cable is inherent property of Douty et al. and Bandyopadhyay.

Response to Arguments

5. Applicant's arguments filed 6/24/03 have been fully considered but they are not persuasive.

The Applicant argues that Douty et al. do not disclose "pointed projections including two adjacent sides being adjacent to the ramped side extending from the inner surface meeting to form a chisel point".

The Examiner disagrees.

Base on the attachment Y, the Examiner interpreted that the chisel point (Y, attachment) which is formed from the ramped side and the two adjacent sides. The chisel point (Y, attachment), which is the line between the ramped side and the two adjacent sides.

Although the Examiner agrees that "an advantage of Applicants' invention is that the teeth are shaped to pierce and retain a fiberglass sleeve surrounding conductors.

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Also advantageously, the shape of the teeth separates the conductors rather than piercing insulation that surrounds the conductors". But those limitations haven't claim in the claim language. Therefore, Douty et al. still a good final rejection.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is (703) 306-5711. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (703) 308-2710. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

8. Any correspondence to this action may be mailed to:


Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

For additional information regarding this new address, which was effective May 1, 2003, see Correspondence with the United States Patent and Trademark Office, 68 Fed. Reg. 14332 (March 25, 2003).

Or faxed to: 703-308-7722 or 308-7724 (informal or draft communications should be clearly labeled "PROPOSED" or "DRAFT")

9. Hand-delivered responses should be brought to:

Crystal Plaza 4, Fourth Floor (receptionist)
2201 South Clark Place, Arlington, Virginia


JAVAID H. NASRI
PRIMARY EXAMINER

TL.

